

Recombinant Human MACIR Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50658

Size: 10ug, 100ug

Protein Name: Macrophage immunometabolism regulator

Synonym: MACIR, C5orf30

UniProt ID: Q96GV9

UniProt Link: www.uniprot.org/uniprotkb/Q96GV9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 206 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEVDINGESRSTLTTLPPFGAEANSPGKAEAEKPRCSSTPCSPMRRTVSGYQILHMDSNYLVGFTT
GEELLKLAQKCTGGEESKAEAMPSLRSKQLDAGLARSSRLYKTRSRYYQPYEIPAVNGRRRRRMPS
SGDKCTKSLPYEPYKALHGPLPLCLLKGRKRAHSKSLDYLNLDKMIKEPADTEVLQYQLQHLTLRGDR
VFARNNT

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Macrophage immunometabolism regulator produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Regulates the macrophage function, by enhancing the resolution of inflammation and wound repair functions mediated by M2 macrophages (PubMed:30659109). The regulation of macrophage function is, due at least in part, to its ability to inhibit glycolysis (PubMed:30659109). May also play a role in trafficking of proteins via its interaction with UNC119 and UNC119B cargo adapters: may help the release of UNC119 and UNC119B cargo or the recycling of UNC119 and UNC119B (PubMed:22085962). May play a role in ciliary membrane localization via its interaction with UNC119B and protein transport into photoreceptor cells (PubMed:22085962).

Subcellular Localization: Cytoplasm . Cell projection, cilium . Note=Localizes to the transition zone and proximal cilium in addition to being found throughout the cytoplasm.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.